

FORM PTO-1449 (modified)

PW FORM PAT-1449)

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

Date: June 14, 2004 Page 1 of 3

Atty. Ref. No.

037003-0280732

Client Ref.

2000-30-0261VUS

Applicant: NABIL HANNA

Appln. No.: 09/986,174

Filing Date: November 7, 2001

Examiner: Misook Yu

Group Art Unit: 1642

## U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)
my	AR	4,780,530	10/1988	Teraoka
	BR	5,314,995	05/1994	Fell
	CR	5,558,864	09/1996	Bendig
	DR	5,587,459	12/1996	Uckun
	ER	5,637,481	06/1997	Ledbetter
	FR	5,645,835	07/1997	Fell
	GR	5,677,171	11/1997	Hudziak
	HR	5,723,125	03/1998	Chang
	IR	5,770,195	06/1998	Hudziak
	JR	5,772,997	06/1998	Hudziak
	KR	5,824,782	10/1998	Hölzer
	LR	5,844,093	12/1998	Kettleborough
	MR	5,855,866	01/1999	Thorpe
	NR	5,891,432	04/1999	Hoo
	OR	5,976,531	11/1999	Mezes

## FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
my	PR	0 610 046 A2	01/1994	EP	Ledbetter		
	QR	0 553 244 B1	12/1998	EP	Romet-Lemonne		
	RR	0 706 799 B1	11/2001	EP	Hölzer		
	SR	WO 92/08495	05/1992	PCT	Gillies		
	TR	WO 98/16254	04/1998	PCT	Goldenberg		

## OTHER

my	UR	Behr et al., "Low- versus high-dose radioimmunotherapy with humanized anti-CD22 or chimeric anti-CD20 antibodies in a broad spectrum of B cell-associated malignancies," <i>Clin Cancer Res</i> , 1999, 5(10 Suppl):3304s-3314s.
	VR	<i>Biogen Idec v. Corixa Corp.</i> , Case No. 01-1637-IEG [Doc. Nos. 635, 662, 486] (S.D. Cal. Jan. 22, 2004).
	WR	Bonardi et al., "Delivery of saporin to human B-cell lymphoma using bispecific antibody: targeting via CD22 but not CD19, CD37, or immunoglobulin results in efficient killing," <i>Cancer Res</i> , 1993, 53(13):3015-3021.
	XR	Caron et al., "Interleukin-2 enhancement of cytotoxicity by humanized monoclonal antibody M195 (anti-CD33) in myelogenous leukemia," <i>Clin Cancer Res</i> , 1995, 1(1):63-70.
	YR	Chikkala et al., "Interactive effects of alpha-interferon A/D and interleukin 2 on murine lymphokine-activated killer activity: analysis at the effector and precursor level," <i>Cancer Res</i> , 1990, 50:1176-1182.
	ZR	Divgi et al., "Clinical comparison of radiolocalization of two monoclonal antibodies (mAbs) against the TAG-72 antigen," <i>Nucl Med Biol</i> , 1994, 21(1):9-15.
	AAR	Ellis et al., "Engineered anti-CD38 monoclonal antibodies for immunotherapy of multiple myeloma," <i>J Immunol</i> , 1995, 155(2):925-937.
	BBR	Flannery et al., "Immunomodulation: NK cells activated by interferon-conjugated monoclonal antibody against human osteosarcoma," <i>Eur J Cancer Clin Oncol</i> , 1984, 20(6):791-798.

CCCC	Okayama et al., "High-efficiency cloning of full-length cDNA; construction and screening of cDNA expression libraries for mammalian cells," <i>Methods Enzymol</i> , 1987, 154:3-28.
DDDR	Ono et al., "The humanized anti-HM1.24 antibody effectively kills multiple myeloma cells by human effector cell-mediated cytotoxicity," <i>Mol Immunol</i> , 1999, 36(6):387-395.
EEER	Ozzello et al., "The use of natural interferon alpha conjugated to a monoclonal antibody anti mammary epithelial mucin (Mc5) for the treatment of human breast cancer xenografts," <i>Breast Cancer Research and Treatment</i> , 1993, 25(3), Database EMBASE on STN No. 93198745.
FFFR	Pagliari et al., "Humanized M195 monoclonal antibody conjugated to recombinant gelonin: an anti-CD33 immunotoxin with antileukemic activity," <i>Clin Cancer Res</i> , 1998, 4(8):1971-1976.
GGGR	Pavlinkova et al., "Radioimmunotherapy of human colon cancer xenografts using a dimeric single-chain Fv antibody construct," <i>Clin Cancer Res</i> , 1999, 5(9):2613-2619.
HHHR	Peterson et al., "Effect of multiple, repeated doses of radioimmunotherapy on target antigen expression (breast MUC-1 mucin) in breast carcinomas," <i>Cancer Res</i> , 1997, 57(6):1103-1108.
IIIR	Pitha et al., "Abnormal regulation of IFN-alpha, -beta, and -gamma expression in MAIDS, a murine retrovirus-induced immunodeficiency syndrome," <i>J Immunol</i> , 1988, 141(10):3611-3616.
JJJR	Qi et al., "Characterization of anti-tumor immunity derived from the inoculation of myeloma cells secreting the fusion protein RM4/IFN-t," <i>Hum Antibod Hybridomas</i> , 1996, 7(1):21-26.
KKKR	Rosenblum et al., "Recombinant immunotoxins directed against the c-erb-2/HER2/neu oncogene product: in vitro cytotoxicity, pharmacokinetics, and in vivo efficacy studies in xenograft models," <i>Clin Cancer Res</i> , 1999, 5(4):865-874.
LLLR	Saiki et al., "Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase," <i>Science</i> , 1988, 239(4839):487-491.
MMMR	Sausville et al., "Continuous infusion of the anti-CD22 immunotoxin IgG-RFB4-SMPT-dgA in patients with B-cell lymphoma: a phase I study," <i>Blood</i> , 1995, 85(12):3457-3465.
NNNR	Shan et al., "Characterization of scFv-Ig constructs generated from the anti-CD20 mAb 1F5 using linker peptides of varying lengths," <i>J Immunol</i> , 1999, 162(11):6589-6595.
OOOR	Sievers et al., "Selective ablation of acute myeloid leukemia using antibody-targeted chemotherapy: a phase I study of an anti-CD33 calicheamicin immunoconjugate," <i>Blood</i> , 1999, 93(11):3678-3684.
PPPR	Skrepnik et al., "Effects of anti-erbB-2 (HER-2/neu) recombinant oncotoxin AR209 on human non-small cell lung carcinoma grown orthotopically in athymic nude mice," <i>Clin Cancer Res</i> , 1996, 2(11):1851-1857.
QQQR	Sosman et al., "In vivo activation of lymphokine-activated killer activity with interleukin-2: prospects for combination therapies," <i>Semin Oncol</i> , 1990, 17(1 Suppl 1):22-30; discussion 38-41.
RRRR	Thakur et al., "Improved antibody targeting with Interferon-alpha-2b conjugate," <i>J Immunother</i> , 1997, 20(3):194-201.
SSSR	Treon et al., "Treatment of plasma cell dyscrasias by antibody-mediated immunotherapy," <i>Semin Oncol</i> , 1999, 26(5 Suppl 14):97-106.
TTTR	Van Hof et al., "Biodistribution of (111)indium-labeled engineered human antibody CTMO1 in ovarian cancer patients: influence of protein dose," <i>Cancer Res</i> , 1996, 56(22):5179-85.
UUUR	Vogel, "Current approaches of immunotargeting," <i>Immunoconjugates. Antibody Conjugates in Radioimaging and Therapy of Cancer</i> , 1987, Database CANCERLIT on STN No. 88648500 (Abstract).
VVVR	Vogel, "Antibody conjugates without inherent toxicity: the targeting of cobra venom factor and other biological response modifiers," <i>Immunoconjugates. Antibody Conjugates in Radioimaging and Therapy of Cancer</i> , 1987, Database CANCERLIT on STN No. 88648508 (Abstract).
WWWR	Vuist et al., "Enhancement of the antibody-dependent cellular cytotoxicity of human peripheral blood lymphocytes with interleukin-2 and interferon alpha," <i>Cancer Immunol Immunother</i> , 1993, 36(3):163-170. ✓
XXXR	Webb et al., "Enhancement of monocyte-mediated tumoricidal activity by multiple interferon-alpha species," <i>Cell Immunol</i> , 1989, 124(1):158-167.
YYYR	Wiseman et al., "Radioimmunotherapy of relapsed non-Hodgkin's lymphoma with zevalin, a 90Y-labeled anti-CD20 monoclonal antibody," <i>Clin Cancer Res</i> , 1999, 5(10 Suppl):3281s-3286s. ✓
ZZZR	Yron et al., "A human monoclonal IgA autoantibody--185/12--behaves like an autoimmune antiphospholipid antibody," <i>Clin Exp Immunol</i> , 1994, 97(2):187-192.
AAAAR	Xiang et al., "Targeting gamma interferon to tumor cells by a genetically engineered fusion protein secreted from myeloma cells," <i>Hum Antibodies Hybridomas</i> , 1996, 7(1):2-10.

Examiner	Date Considered:
<i>Misovh</i>	11-5-96

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

my	CCR	Flavell et al., "Comparison of the performance of anti-CD7 and anti-CD38 bispecific antibodies and immunotoxins for the delivery of saporin to a human T-cell acute lymphoblastic leukemia cell line." <i>Hematol Oncol.</i> , 1995, 13(4):185-200.
	DDR	Fornier et al., "Update on the management of advanced breast cancer," <i>Oncology (Huntingt)</i> , 1999, 13(5):647-58; discussion 660, 663-664.
	EER	Ghetie et al., "Antitumor activity of Fab' and IgG-anti-CD22 immunotoxins in disseminated human B lymphoma grown in mice with severe combined immunodeficiency disease: effect on tumor cells in extranodal sites," <i>Cancer Res</i> , 1991, 51(21):5876-5880.
	FFR	Goldmacher et al., "Anti-CD38-blocked ricin: an immunotoxin for the treatment of multiple myeloma." <i>Blood</i> , 1994, 84(9):3017-3025.
	GGR	Goto et al., "A novel membrane antigen selectively expressed on terminally differentiated human B cells," <i>Blood</i> , 1994, 84(6):1922-1930.
	HHR	Goulet et al., "Conjugation of blocked ricin to an anti-CD19 monoclonal antibody increases antibody-induced cell calcium mobilization and CD19 internalization," <i>Blood</i> , 1997, 90(6):2364-75.
	IIR	Haisma et al., "Construction and characterization of a fusion protein of single-chain anti-CD20 antibody and human beta-glucuronidase for antibody-directed enzyme prodrug therapy," <i>Blood</i> , 1998, 92(1):184-190.
	JJR	Hassan et al., "Interleukins and colony stimulating factors in human myeloid leukemia cell lines," <i>Leuk Lymphoma</i> , 1995, 20(1-2):1-15.
	KKR	Hellstrand et al., "Histamine and cytokine therapy," <i>Acta Oncol</i> , 1998, 37:347-353.
	LLR	<i>Idec Pharmaceuticals and Corixa Corp.</i> , Case No. 01-1637-IEG [Doc. Nos. 486, 584] (S.D. Cal. Oct. 14, 2003).
	MMR	Johnson et al., "Anti-tumor activity of CC49-doxorubicin immunoconjugates," <i>Anticancer Res</i> , 1995, 15(4):1387-1393.
	NNR	Kossmann et al., "A phase I trial of humanized monoclonal antibody HuM195 (anti-CD33) with low-dose interleukin 2 in acute myelogenous leukemia," <i>Clin Cancer Res</i> , 1999, 5(10):2748-2755.
	OOR	LeBerthon et al., "Enhanced tumor uptake of macromolecules induced by a novel vasoactive interleukin 2 immunoconjugate," <i>Cancer Res</i> , 1991, 51(10):2694-2698.
	PPR	Li et al., "Pharmacokinetics and biodistribution of radioimmunoconjugates of anti-CD19 antibody and single-chain Fv for treatment of human B-cell malignancy," <i>Cancer Immunol Immunother</i> , 1998, 47(3):121-130.
	QQR	Li et al., "The epitope specificity and tissue reactivity of four murine monoclonal anti-CD22 antibodies," <i>Cell Immunol</i> , 1989, 118(1):85-99.
	RRR	Liu et al., "Follow-up of relapsed B-cell lymphoma patients treated with iodine-131-labeled anti-CD20 antibody and autologous stem-cell rescue," <i>J Clin Oncol</i> , 1998, 16(10):3270-3278.
	SSR	Lode et al., "Natural killer cell-mediated eradication of neuroblastoma metastases to bone marrow by targeted interleukin-2 therapy," <i>Blood</i> , 1998, 91(5):1706-1715.
	TTR	Macey et al., "Effect of recombinant alpha-interferon on pharmacokinetics, biodistribution, toxicity, and efficacy of 131I-labeled monoclonal antibody CC49 in breast cancer: a phase II trial," <i>Clin Cancer Res</i> , 1997, 3(9):1547-1555.
	UUR	Maier et al., "Requirements for the internalization of a murine monoclonal antibody directed against the HER-2/neu gene product c-erbB-2," <i>Cancer Res</i> , 1991, 51(19):5361-5369.
	VVR	Mason et al., "Value of monoclonal anti-CD22 (p135) antibodies for the detection of normal and neoplastic B lymphoid cells," <i>Blood</i> , 1987, 69(3):836-40.
	WWR	Meseri-Delwail et al., "Effects of alpha-interferon on MHC unrestricted cytotoxicity in chronic myelogenous leukemia," <i>Biotechnol Ther</i> , 1994, 5(1-2):47-57.
	XXR	Morrison et al., "Chimeric human antibody molecules: mouse antigen-binding domains with human constant region domains," <i>Proc Natl Acad Sci USA</i> , 1984, 81(21):6851-6855.
	YYR	Myers et al., "Large scale manufacturing of B43(anti-CD19)-genistein for clinical trials in leukemia and lymphoma," <i>Leuk Lymphoma</i> , 1998, 29(3-4):329-338.
	ZZR	Ngai et al., "In vitro and in vivo evaluation of streptavidin immunoconjugates of the second generation TAG-72 monoclonal antibody CC49," <i>Nucl Med Biol</i> , 1995, 22(1):77-86.
	AAAR	Oldham, "Immunoconjugate: Drugs and Toxins," <i>Principles of Cancer Biotherapy</i> , 1987, Database CANCERLIT on STN, No. 88648019 (Abstract).
↓	BBBR	Ohtomo et al., "Molecular cloning and characterization of a surface antigen preferentially overexpressed on multiple myeloma cells," <i>Biochem Biophys Res Commun</i> , 1999, 258(3):583-591.

FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office				Atty. Dkt. No.	M#  0280732	Client Ref.  2000-30-0261VUS	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Applicant: NABIL HANNA			
				Appln. No.: 09/986,174			
				Filing Date: November 7, 2001			
				Examiner: Misook Yu      Group Art Unit: 1642			
Date: December 24, 2003      Page 1 of 1							
<b>U.S. PATENT DOCUMENTS</b>							
Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date
my	AR	6,183,744 B1	02/2001	GOLDENBERG			
1	BR	6,306,393 B1	10/2001	GOLDENBERG			
	CR						
	DR						
	ER						
	FR						
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
	GR						
	HR						
	IR						
	JR						
	KR						
<b>OTHER</b>							
my	LR	Kaminski, et al., "Radioimmunotherapy of Advanced B-Cell Lymphoma with Non Bone Marrow Ablative Doses of 131-I MB-1 Antibody," 1990, <i>Antibody Immunoconjugates, and Radiopharmaceuticals</i> , Vol. 3, No. 1, Abstract No. 83.					
	MR	Kaminski, et al., "Radioimmunodetection (RID) and Non Marrow Ablative Radioimmunotherapy (RIT) of B-Cell Lymphoma With 131-I MB-1 Antibody," 1990, <i>Proceedings of ASCO</i> , Vol. 9, p. 271, Abstract No. 1051.					
	NR	Wahl, et al., "Radioimmunotherapy of B-Cell Lymphoma with I131 MB-1 Monoclonal Antibody," <i>The Journal of Nuclear Medicine: Proceedings of the 37<sup>th</sup> Annual Meeting</i> , p. 852, Abstract No. 622.					
	OR	Kaminski, et al., "Phase I Trial Results of 131-I MB-1 Antibody Radioimmunotherapy (RAIT) of B-Cell Lymphoma," 1990, <i>Antibody Immunoconjugates, and Radiopharmaceuticals</i> , Vol. 4, No. 1, p. 36, Abstract No. 66.					
	PR	Kaminski, et al., "Phase I Evaluation of 131-I MB-1 Antibody Radioimmunotherapy (RIT) of B-Cell Lymphoma," 1990, <i>Blood</i> , Vol. 76, No. 10, p. 355a, Abstract No. 1409.					
	QR	Kaminski, et al., "Imaging, Dosimetry, and Radioimmunotherapy With Iodine 131-Labeled Anti-CD37 Antibody in B-Cell Lymphoma," 1992, <i>Journal of Clinical Oncology</i> , Vol. 10, No. 11, pp. 1696-1711.					
1	RR	Jensen, et al., "Rapid tumor lysis in a patient with B-cell chronic lymphocytic leukemia and lymphocytosis treated with an anti-CD20 monoclonal antibody (IDEC C2B8, rituximab)," 1998, <i>Ann Hematol</i> , Vol. 77, pp. 89-91.					
	SR						
	TR						
Examiner: <i>Misook Yu</i>				Date Considered: 11-5-04			
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office



Atty.  
Dkt. No.

M#

Client Ref.

037003-0280732

2000-30-0261VUS

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicant: Nabil

Appln. No.: 09/986,174

Filing Date: November 7, 2001

Date: August 20, 2003

Page 1 of 1

Examiner: To be assigned Group Art Unit: 1642

**U.S. PATENT DOCUMENTS**

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
my	AR	5,736,137	04/1998	Anderson, et al.	424	133.1	
	BR	5,776,456	07/1998	Anderson, et al.	424	133.1	
	CR	5,843,439	12/1998	Anderson, et al.	424	133.1	
	DR						
	ER						
	FR						
	GR						

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
						Enclosed	No
my	HR	0 396 387 A2	11/1990	EP	Rosenblum, et al.		
	IR						
	JR						
	KR						
	LR						
	MR						

**RECEIVED**

AUG 27 2003

TECH CENTER 1600/2900

**OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

my	NR	Ozello, et al., Experimental immunotherapy of breast cancer using alpha interferon conjugated to monoclonal antibody Mc5, <i>Advances in Experimental Medicine and Biology</i> , Spring St., NY, US, vol. 353, 1994, pages 35-46					
	OR	Ozello, et al., Conjugation of interferon alpha to a humanized monoclonal antibody (HuBrE-3v1) enhances the selective localization and antitumor effects of interferon in breast cancer xenografts, <i>Breast Cancer Research and Treatment</i> , 48:135-147 (1998)					
	PR	Pallela, et al., Interferon- $\alpha$ -2b immunoconjugate for improving immunoscintigraphy and immunotherapy, <i>The Journal of Nuclear Medicine</i> , 41(6):1108-1113 (2000)					
	QR						
	RR						
	SR						

Examiner

Date Considered: 11-5-04

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.